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PATENT
8038-1053

IN THE U.S. PATENT AND TRADEMARK OFFICE

In re application of

Shin-ichirou ONO et al.

Conf. 4512

Application No. 10/807,245

Group 2871

Filed March 24, 2004

Examiner James Dudek

BACKLIGHT UNIT IN A LIQUID
CRYSTAL DISPLAY DEVICE

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In compliance with Rules 1.97 and 1.98, and in fulfillment of the duty of disclosure under Rule 1.56, the accompanying document, a copy of which is attached to this statement, is made of record on the enclosed Form PTO-1449.

A concise explanation of the relevance of this item is that this reference was cited by the Chinese Patent Office in an Official Action. A copy of the Chinese Official Action (with Japanese translation) in which it was cited is attached hereto, with what is believed to be the pertinent portion enclosed in a wavy line. **An English translation of the enclosed portion is also attached hereto.** JP 10-39808 was previously cited in the Information Disclosure Statement filed March 24, 2004.

Under the provisions of 37 CFR 1.97(e), the undersigned hereby certifies that each item of information con-

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Docket No. 8038-1053
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tained in this Information Disclosure Statement was first cited in any communication from a foreign Patent Office in a counterpart foreign application not more than three months prior to the filing of this Statement.

Please charge the fee of \$180 required by 37 CFR 1.17(p) to Deposit Account No. 25-0120.

Respectfully submitted,

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**INFORMATION DISCLOSURE CITATION
IN AN APPLICATION**

(Use several sheets if necessary)

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8038-1053

Application No.:
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Applicant:
Shin-ichirou ONO et al.

Filing Date:
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Group Art Unit:
2871

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing date (if appropriate)
	2002/0113924	08/22/2002	SAITO et al.			

FOREIGN PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Country	Class	Subclass	Translation	
						Yes	No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER:

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

* Abstract provided for the Examiner's convenience

ONO et al.
U. S. Application No. 10/807,245
Our Ref. 8038-1053

Opinion of First Notice of Examination

Comparison Publication 1 (Reference JP 10-39808A, Specification Section(s) 0018-0027, Figure 1-4) discloses an illumination device used as a straight down type backlight of one type of liquid crystal display, within which it is provided with a light diffusion transmission plate 10 and a fluorescent lamp 9 provided on the rear surface side of the light diffusion transmission plate 10, and a convex surface region 8a which reflects light of components substantially parallel to the light diffusion transmission plate 10 emitted from the light diffusion transmission plate 10 and on which is located a mirror surface reflection layer 8c (corresponding to the optical member of Claim 1 serves as a chiropractic body).

In the same manner, Comparison Publication 1 (the source of which is the same as that indicated above) is a convex surface region 8a provided with a mirror surface reflection layer 8c in which multiple long narrow fluorescent lamps 9 extend mutually in parallel, comprising a rod-like member, and in extending in parallel to the multiple long narrow fluorescent lamps, is arranged between two closely proximate fluorescent lamps 9.

Comparison Publication 1 (the source of which is the same as that indicated above) discloses a mirror surface reflection layer c formed from silver, or in other words as close as an optical rod-like member formed from an electro-conductive material.

Comparison Publication 1 (the source of which is the same as that indicated above) discloses a mirror surface reflection layer 8c on the convex surface region 8a, or in other words a rod-like member provided with a reflecting mirror surface.

Comparison Publication 1 (the source of which is the same as that indicated above) discloses arranging a convex region 8a, on which a mirror surface reflection layer 8c is arranged in the center of the closely proximate fluorescent lamp 9.

Comparison Publication 1 (the source of which is the same as that indicated above) discloses two closely proximate convex surface regions 8a on which the

mirror surface reflection layer 8 c is arranged to be closely proximate to the respective two fluorescent lamps 9.

A comparison publication (the source of which is the same as that indicated above) discloses an illumination device used as a straight down type of backlight of one type of liquid crystal display, within which is provided an optical diffusion transmission plate 10 and a long narrow fluorescent lamp 9 provided on the rear surface side of the optical diffusion transmission plate 10, wherein there is a convex region 8a on which there is a mirror surface reflection layer 8c comprising a rod-like member (corresponding to the rod-like member of sampling 12 which is used as a chiropractic body), wherein the mirror surface reflection layer 8c extends in parallel to multiple long narrow fluorescent lamps 9, and is formed from silver (in other words, a rod-like member is disclosed which is formed from an electro-conductive material.)

Since the illumination device discloses its use in a liquid crystal display, there is no novelty to Claim 16.

The illumination device disclosed in Comparison Publication 1 discloses the technical characteristics of all of Claim 12, in addition to which, since it discloses the use of an illumination device in a liquid crystal display, there is no novelty to Claim 17.

Comparison Publication 2 (reference is made to US20020113924A1, Specification Sections 0096 to 0103, and Figures 6-8) discloses 1 type of liquid crystal display, within which a spacer HLD (corresponding to the primary component of Claim 4) is arranged on a mountain type reflection plate REF (corresponding to the rod-like member of Claim 4), which HLD extends from the REF to the closely proximate optical diffusion plate SCT.